



SEQUENCE LISTING

<110> AntiCancer, Inc.

Xu, Mingxu

Han, Oinghong

<120> HIGH EXPRESSION AND PRODUCTION OF HIGH
SPECIFIC ACTIVITY RECOMBINANT S-ADENOSYLHOMOCYSTAINASE
(SAHH) AND IMPROVED ASSAYS FOR S-ADENOSYLMETHIONINE (SAM)

<130> 31276-20026.00

<140> US 09/759,990

<141> 2001-01-12

<150> US 60/176,444

<151> 2000-01-14

<160> 7

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1461

<212> DNA

<213> Homo sapiens (nucleotide sequence of SAHH)

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 35 40 45
 Lys Pro Leu Lys Gly Val Arg Ile Ser Gly Ser Leu His Met Thr Val
 50 55 60
 Gln Thr Ala Val Leu Ile Glu Thr Leu Thr Ala Leu Gly Ala Asp Val
 65 70 75 80
 Arg Trp Ala Ser Cys Asn Ile Phe Ser Thr Gln Asp Thr Ala Ala Ala
 85 90 95
 Ala Ile Val Val Gly Pro Thr Gly Thr Pro Glu Lys Pro Ala Gly Ile
 100 105 110
 Pro Val Phe Ala Trp Lys Gly Glu Thr Leu Pro Glu Tyr Trp Glu Asn
 115 120 125
 Thr Tyr Arg Ala Leu Thr Trp Pro Asp Gly Gln Gly Pro Gln Gln Val
 130 135 140
 Val Asp Asp Gly Gly Asp Ala Thr Leu Leu Ile Ser Lys Gly Phe Glu
 145 150 155 160
 Phe Glu Thr Ala Gly Ala Val Pro Glu Pro Thr Glu Ala Asp Asn Leu
 165 170 175
 Glu Tyr Arg Cys Val Leu Ala Thr Leu Lys Gln Val Phe Asn Gln Asp
 180 185 190
 Lys Asn His Trp His Thr Val Ala Ala Gly Met Asn Gly Val Ser Glu
 195 200 205
 Glu Thr Thr Thr Gly Val His Arg Leu Tyr Gln Leu Glu Lys Glu Gly
 210 215 220

Lys Leu Leu Phe Pro Ala Ile Asn Val Asn Asp Ala Val Thr Lys Ser
225 230 235 240
Lys Phe Asp Asn Ile Tyr Gly Cys Arg His Ser Leu Ile Asp Gly Ile
245 250 255
Asn Arg Ala Ser Asp Val Met Ile Gly Gly Lys Thr Ala Leu Val Met
260 265 270
Gly Tyr Gly Asp Val Gly Lys Gly Cys Ala Gln Ser Leu Arg Gly Gln
275 280 285
Gly Ala Arg Val Ile Ile Thr Glu Leu Asp Pro Ile Cys Ala Leu Gln
290 295 300
Ala Ala Met Glu Gly Tyr Gln Val Arg Arg Ile Glu Glu Val Val Lys
305 310 315 320
Asp Val Asp Ile Phe Val Thr Cys Thr Gly Asn Cys Asp Ile Ile Ser
325 330 335
Val Asp Met Met Ala Gln Met Lys Asp Lys Ala Ile Val Gly Asn Ile
340 345 350
Gly His Phe Asp Asn Glu Ile Asp Thr Asp Gly Leu Met Lys Tyr Pro
355 360 365
Gly Ile Lys His Ile Pro Ile Lys Pro Glu Tyr Asp Met Trp Glu Phe
370 375 380
Pro Asp Gly His Ala Ile Leu Leu Ala Glu Gly Arg Leu Leu Asn
385 390 395 400
Leu Gly Cys Ala Thr Gly His Pro Ser Phe Val Met Ser Met Ser Phe
405 410 415
Thr Asn Gln Thr Leu Ala Gln Leu Asp Leu Tyr Glu Lys Arg Gly Asn
420 425 430
Leu Glu Lys Lys Val Tyr Thr Leu Pro Lys His Leu Asp Glu Glu Val
435 440 445
Ala Arg Leu His Leu Gly Ser Leu Asp Val His Leu Thr Lys Leu Thr
450 455 460
Gln Lys Gln Ala Asp Tyr Ile Asn Val Pro Val Glu Gly Pro Tyr Lys
465 470 475 480
Ser Asp Ala Tyr Arg Tyr
485